FIG. 1A

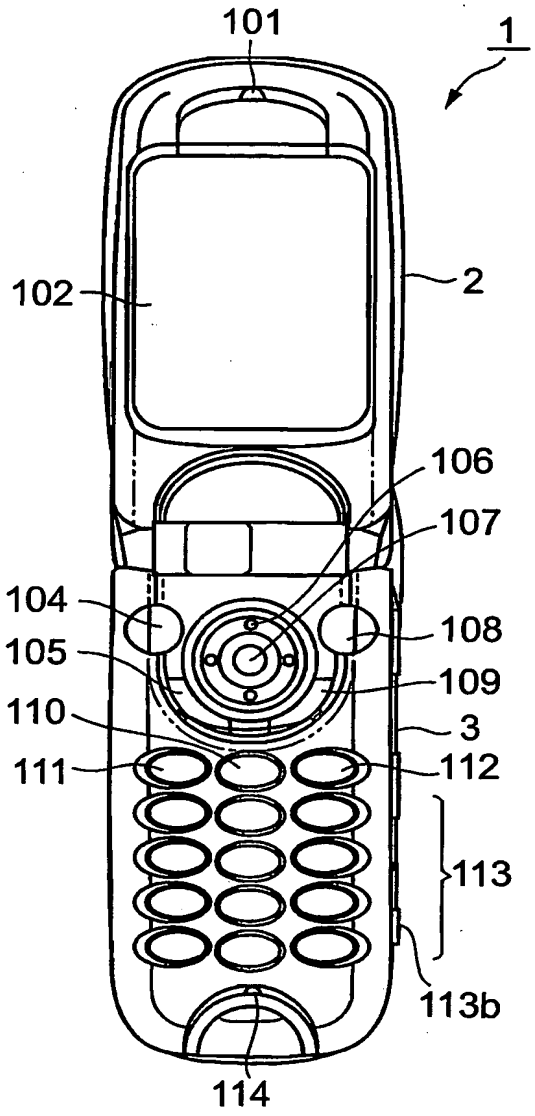

101
1
102
2
106
107
104
108
105
109
110
3
111
112
113
113b
114

FIG. 1B

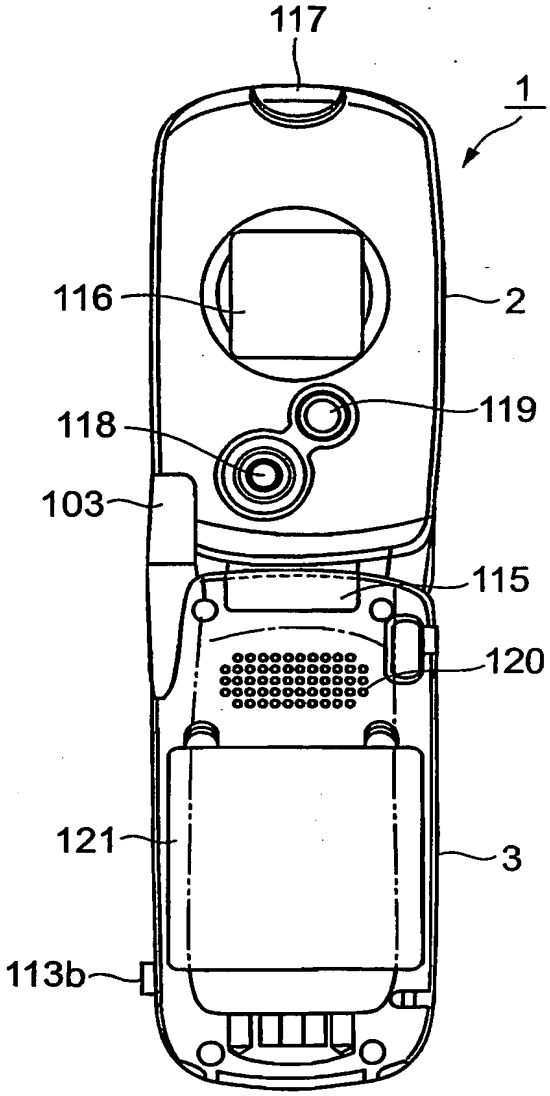

117
1
116
2
119
118
103
115
120
121
3
113b

FIG. 2

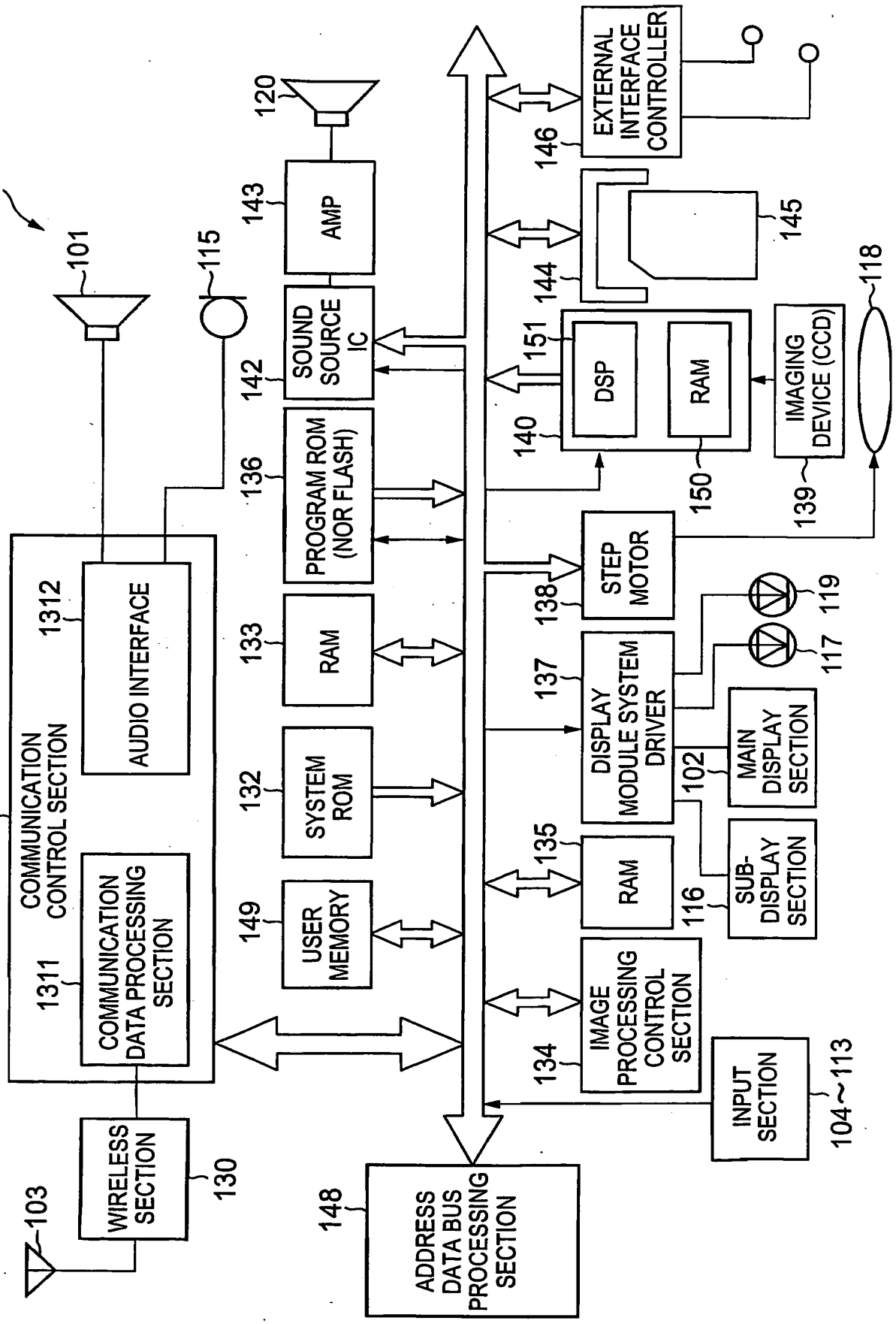

1
101
115
120
143
AMP
142
SOUND SOURCE IC
136
PROGRAM ROM (NOR FLASH)
133
RAM
132
SYSTEM ROM
149
USER MEMORY
131
COMMUNICATION CONTROL SECTION
1312
AUDIO INTERFACE
1311
COMMUNICATION DATA PROCESSING SECTION
103
WIRELESS SECTION
130
148
ADDRESS DATA BUS PROCESSING SECTION
146
EXTERNAL INTERFACE CONTROLLER
144
145
140
151
DSP
RAM
150
IMAGING DEVICE (CCD)
139
118
138
STEP MOTOR
137
DISPLAY MODULE SYSTEM DRIVER
119
117
102
MAIN DISPLAY SECTION
135
RAM
116
SUB-DISPLAY SECTION
134
IMAGE PROCESSING CONTROL SECTION
INPUT SECTION
104~113

FIG. 3

132

ITEMS	DETAILS
PROTOCOL PROGRAM	COMMUNICATION DRIVER
NONVOLATILE SETUP DATA	COMMUNICATION SETTING AREA

FIG. 4

133

ITEMS	DETAILS
WORK AREA	COMMUNICATION DRIVER
OTHER	COMMUNICATION WORK AREA

FIG. 5

135

ITEMS	DETAILS
WORK AREA	APPLICATION HEAP
	JAVA
BACKUP	RAM USER DATA
SYSTEM MANAGEMENT	FILE SYSTEM
CACHE MEMORY	BROWSER CACHE MEMORY
OTHER	

FIG. 6

136

ITEMS	DETAILS
DATA AREA	IMAGES · ILLUSTRATIONS · FONTS MELODIES · ICON DATA CAMERA DATA (FRAME, STAMP)
FILE SYSTEM	USER DATA MANAGEMENT DATA FILE SYSTEM MANAGEMENT DATA
DICTIONARY	DATA
	PROGRAM
UI PROGRAM	UI RELATED, JAVA

FIG. 7A

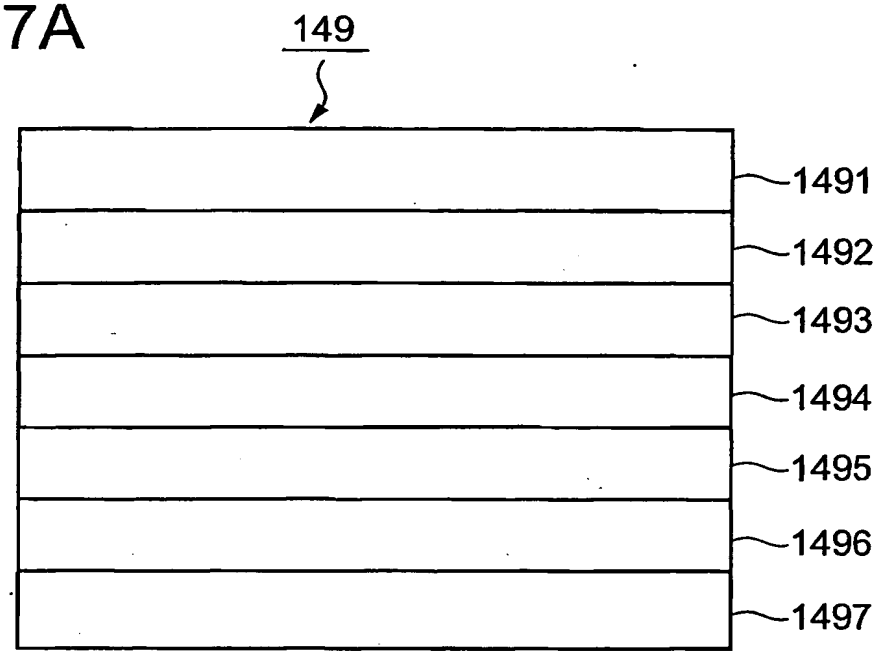


FIG. 7B

1497

1500 RECORD NUMBER	1501 FILE NAME	1502 ACQUISITION DEVICE	1503 PROFILE DATA	1504 STORED ADDRESS OF ACTUAL FILE	1505 STORED ADDRESS OF THUMBNAIL DATA
0001	abc.3g2	Inner camera device	....	xx0012ab	xx23abcd
0002	def.3gp	Appended E-mail	....	x101dfea	x103efab
0003	MOL001.ASF	Directy Input from audio/visual device	....	1100ffff	11ab0123
0004	ghi.mpeg	Record Digital Video Broadcast Contents	....	1a00deda	2d00efac
⋮	⋮	⋮	⋮	⋮	⋮

FIG. 8

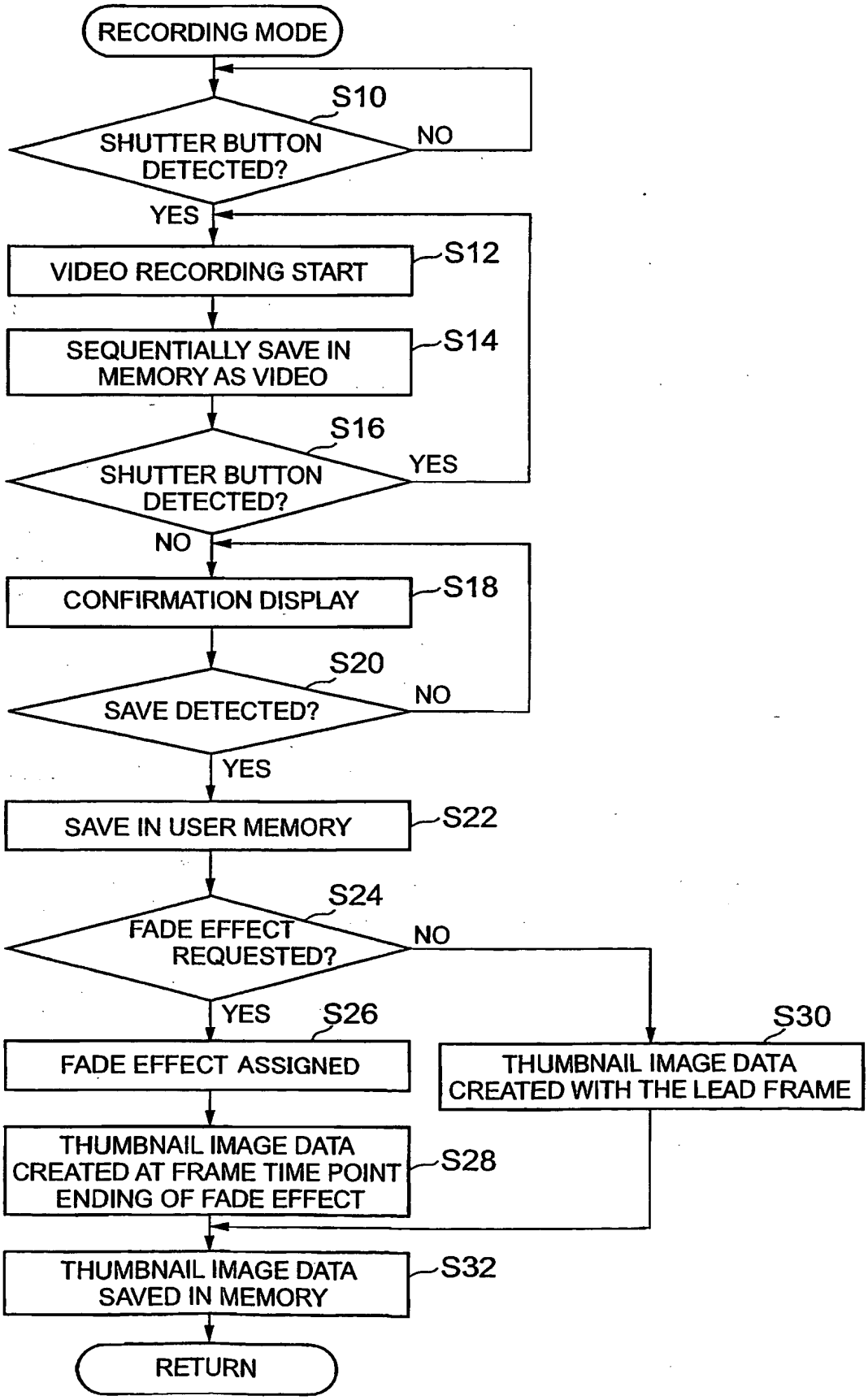

RECORDING MODE
S10
SHUTTER BUTTON DETECTED?
NO
YES
VIDEO RECORDING START
S12
SEQUENTIALLY SAVE IN MEMORY AS VIDEO
S14
S16
SHUTTER BUTTON DETECTED?
YES
NO
CONFIRMATION DISPLAY
S18
S20
SAVE DETECTED?
NO
YES
SAVE IN USER MEMORY
S22
S24
FADE EFFECT REQUESTED?
NO
YES
S26
FADE EFFECT ASSIGNED
S30
THUMBNAIL IMAGE DATA CREATED WITH THE LEAD FRAME
THUMBNAIL IMAGE DATA CREATED AT FRAME TIME POINT ENDING OF FADE EFFECT
S28
THUMBNAIL IMAGE DATA SAVED IN MEMORY
S32
RETURN

FIG. 9

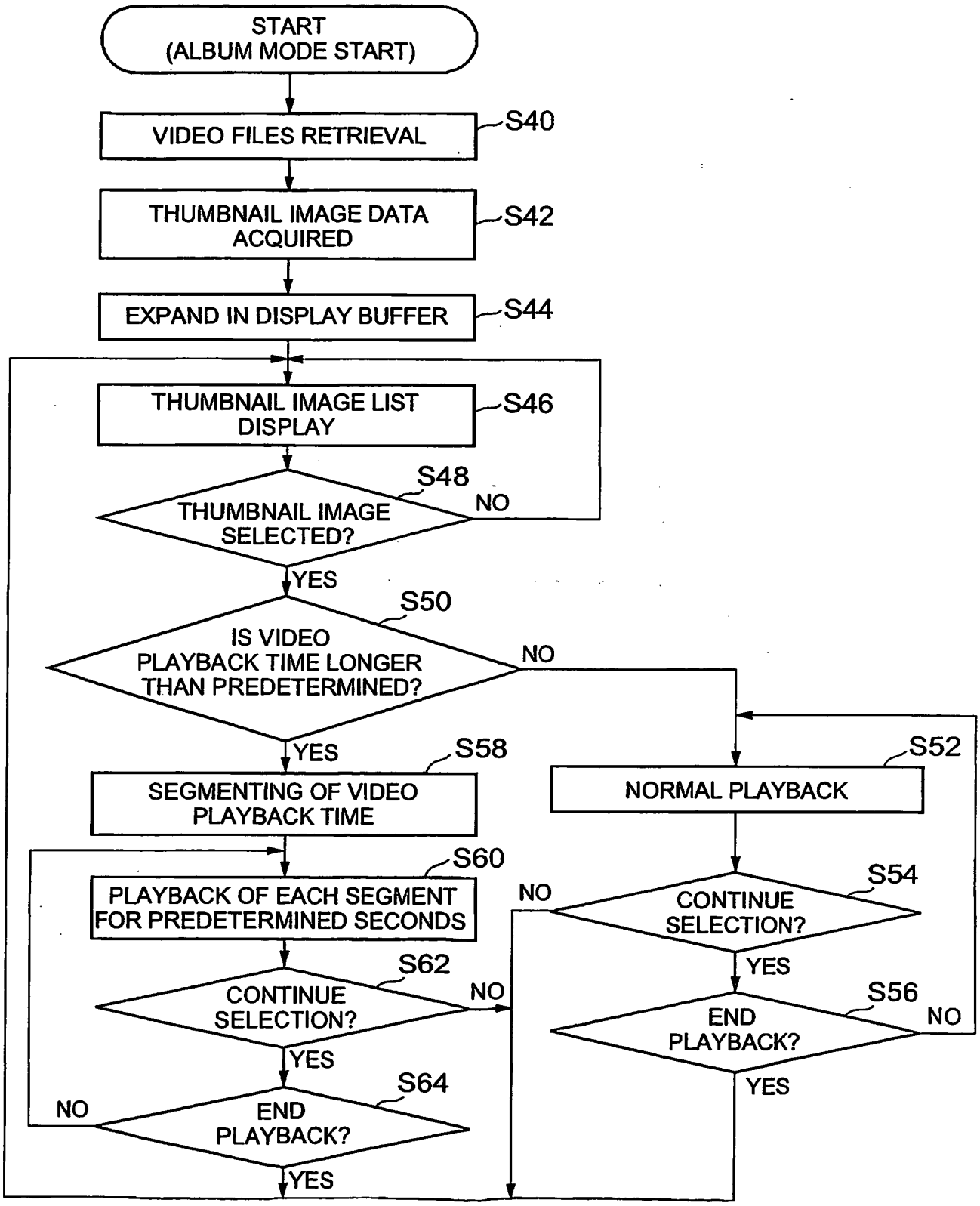

START
(ALBUM MODE START)
VIDEO FILES RETRIEVAL
S40
THUMBNAIL IMAGE DATA ACQUIRED
S42
EXPAND IN DISPLAY BUFFER
S44
THUMBNAIL IMAGE LIST DISPLAY
S46
S48
THUMBNAIL IMAGE SELECTED?
NO
YES
S50
IS VIDEO PLAYBACK TIME LONGER THAN PREDETERMINED?
NO
YES
S58
SEGMENTING OF VIDEO PLAYBACK TIME
S60
PLAYBACK OF EACH SEGMENT FOR PREDETERMINED SECONDS
S62
CONTINUE SELECTION?
NO
YES
S64
END PLAYBACK?
NO
YES
S52
NORMAL PLAYBACK
S54
CONTINUE SELECTION?
NO
YES
S56
END PLAYBACK?
NO
YES

FIG. 10

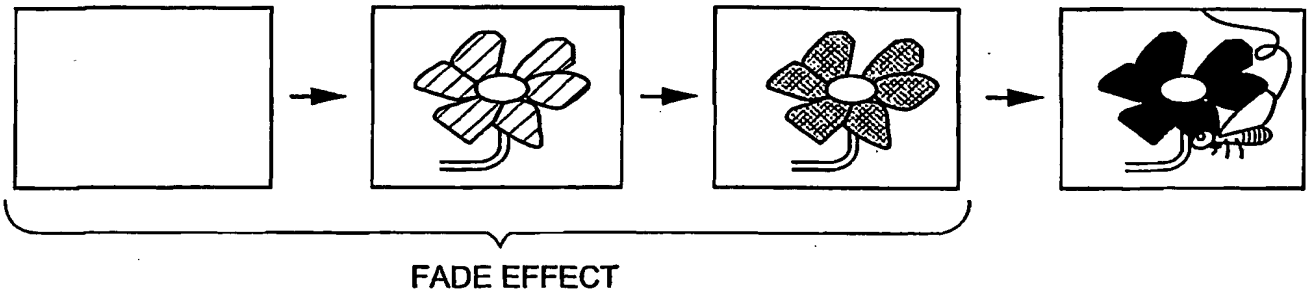


FIG. 11

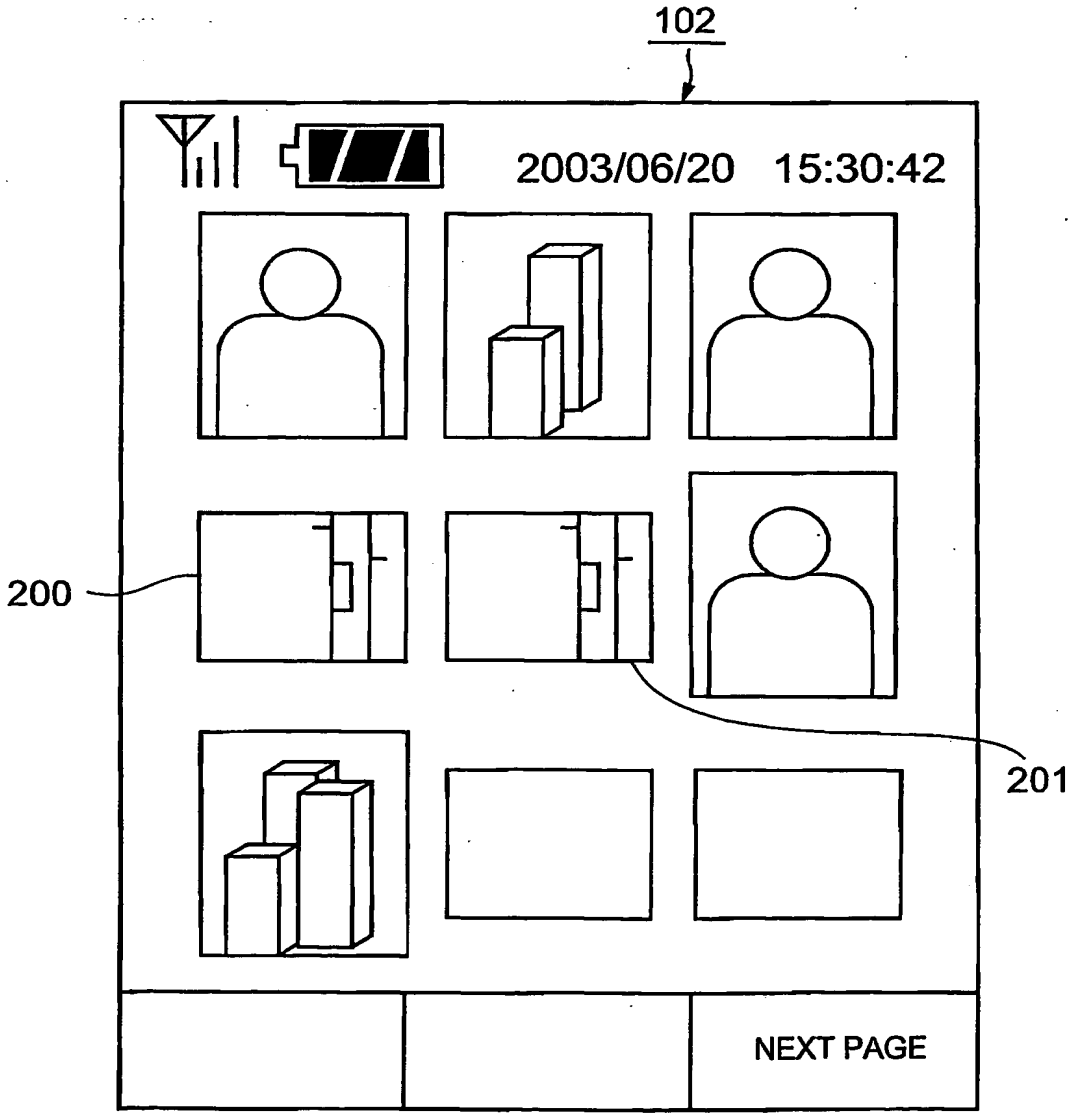


FIG. 12

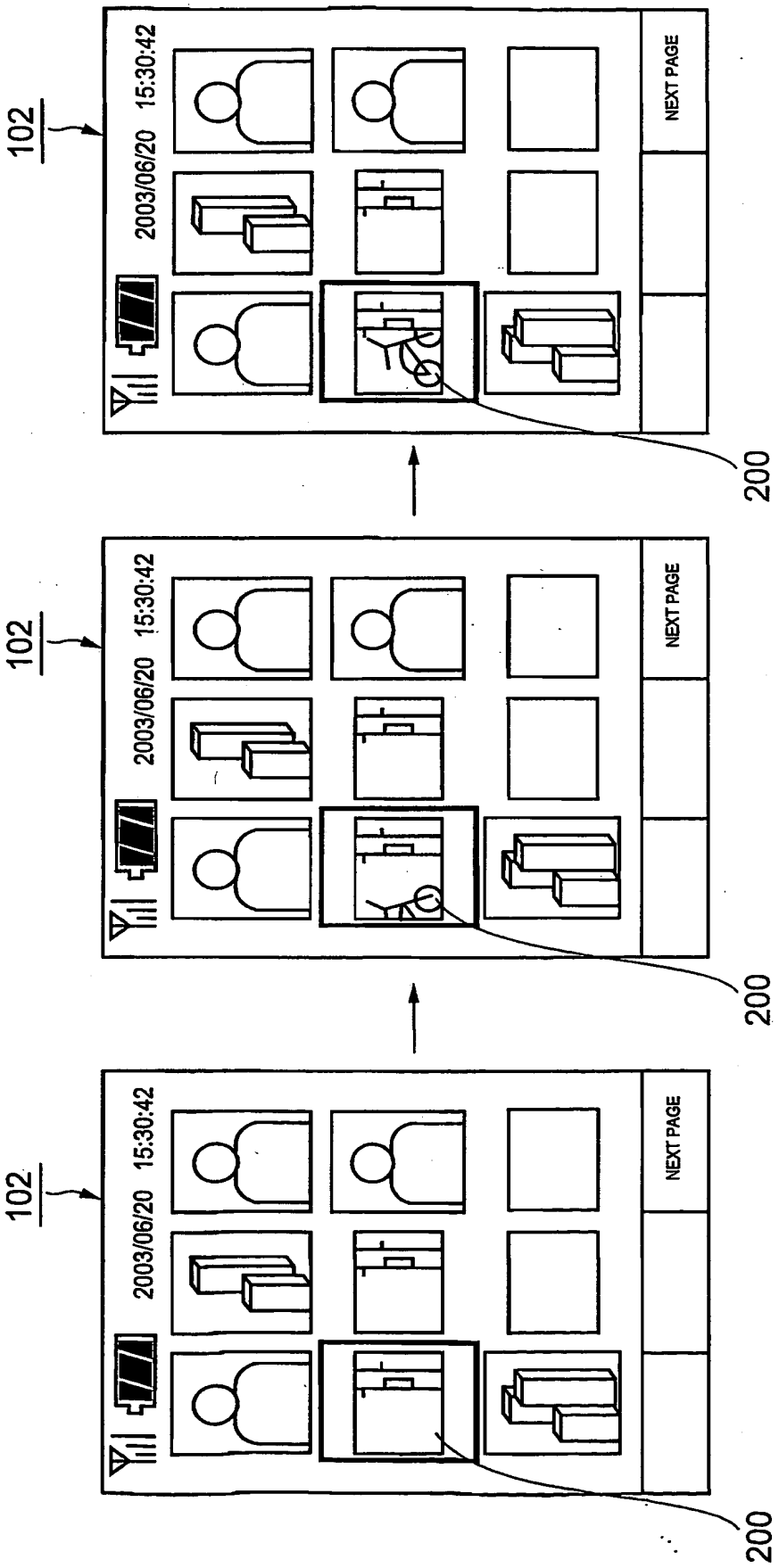

102
2003/06/20 15:30:42
NEXT PAGE
200
102
2003/06/20 15:30:42
NEXT PAGE
200
102
2003/06/20 15:30:42
NEXT PAGE
200

FIG. 13

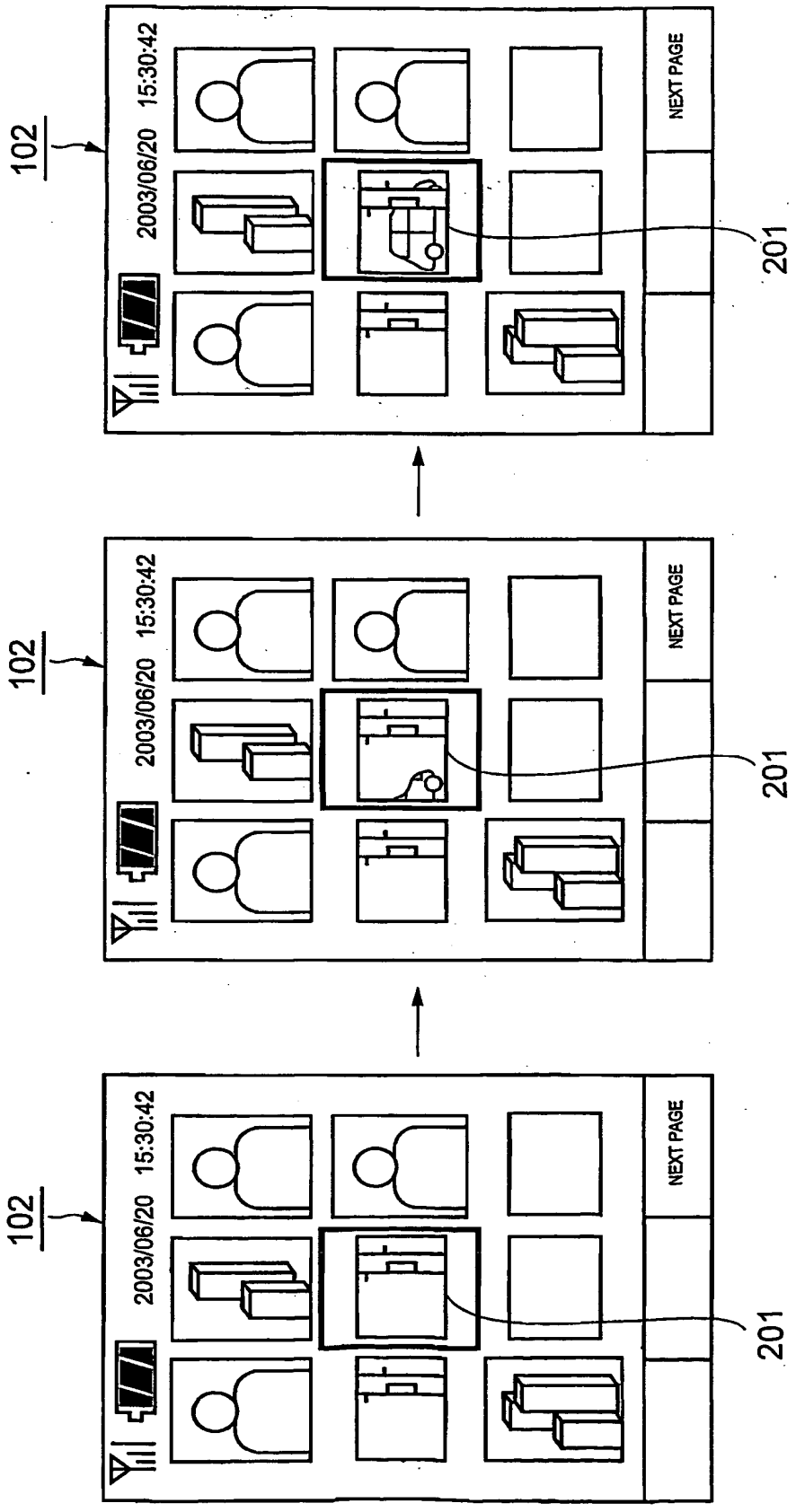

102
2003/06/20 15:30:42
NEXT PAGE
201
102
2003/06/20 15:30:42
NEXT PAGE
201
102
2003/06/20 15:30:42
NEXT PAGE
201

FIG. 14

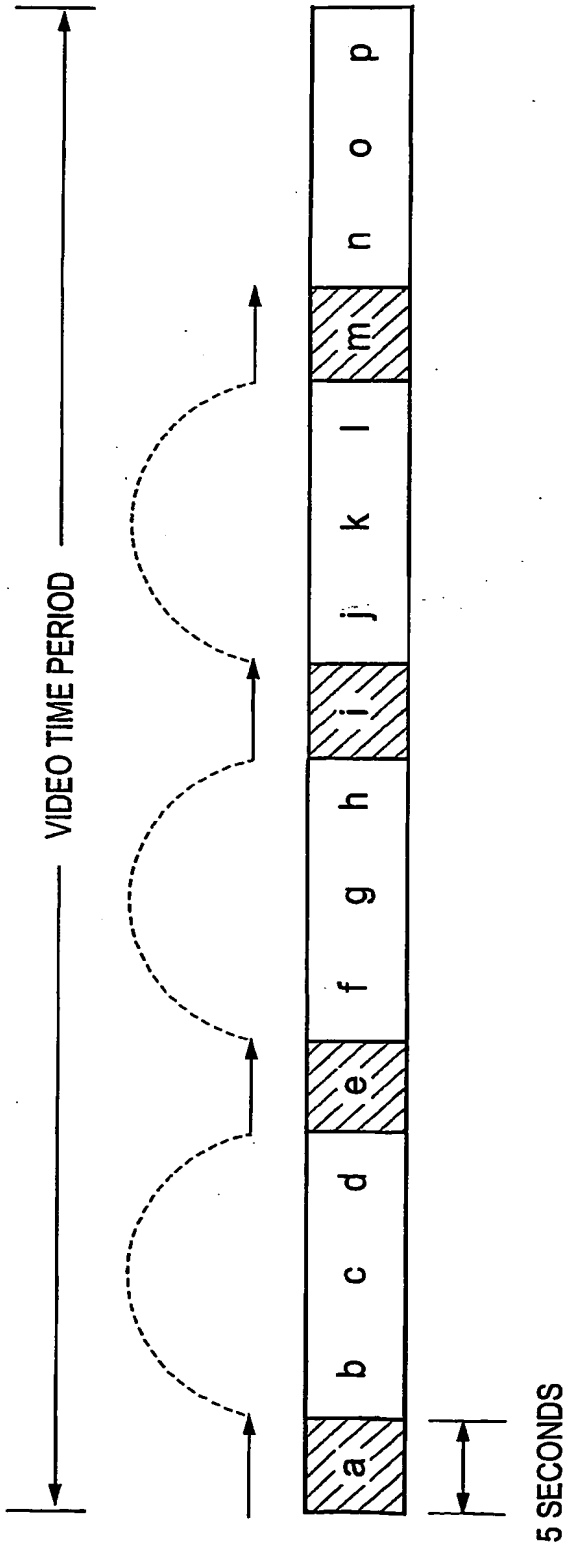


FIG. 15

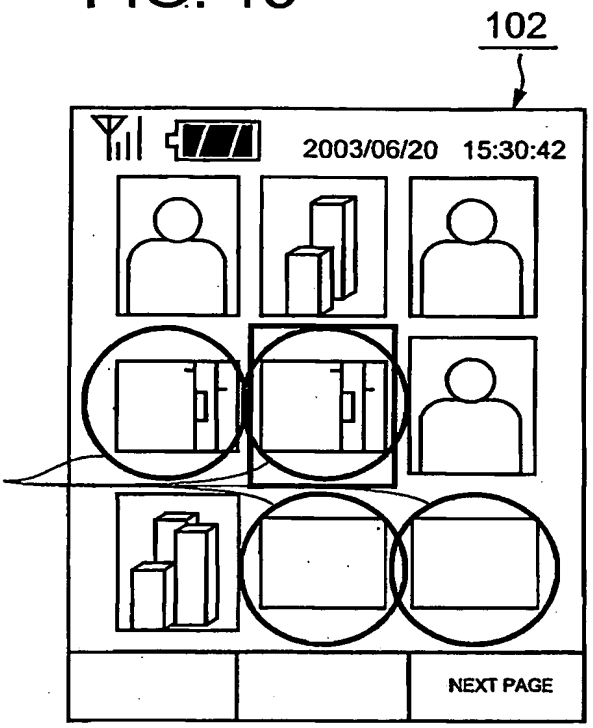
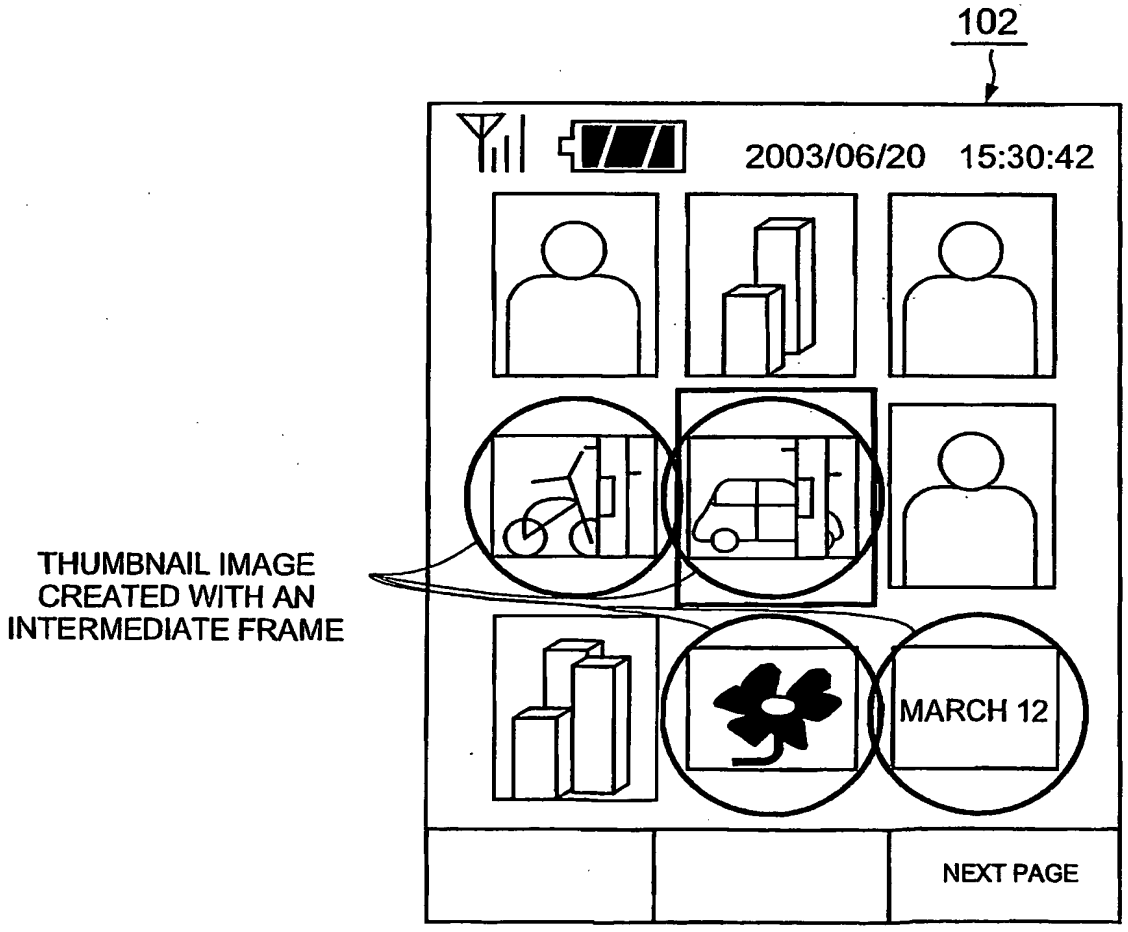

102
2003/06/20 15:30:42
THUMBNAIL IMAGE CREATED WITH THE LEAD FRAME
NEXT PAGE

FIG. 16


102
2003/06/20 15:30:42
THUMBNAIL IMAGE CREATED WITH AN INTERMEDIATE FRAME
MARCH 12
NEXT PAGE